



Jackson Oaks / Holiday Lakes Estates Water Infrastructure Improvement Plan

City of Morgan Hill/JOA Meeting
Jackson Oaks Meeting Hall
March 29, 2016 at 7:00pm

Fire Preparedness

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City of Morgan Hill Water System Upgrades

► Objectives

- Enhance Fire Fighting Capabilities
 - (Holiday Lakes, Jackson Oaks, Holiday 1, 2, & 3)
- Enhance System Reliability
 - Minimize Outages
 - Sustainable Water Quality
- Provide System Redundancy and Operations Flexibility.

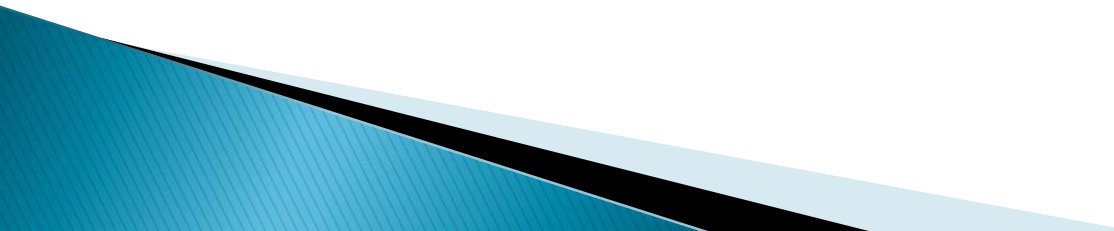
Current Water System



City of Morgan Hill

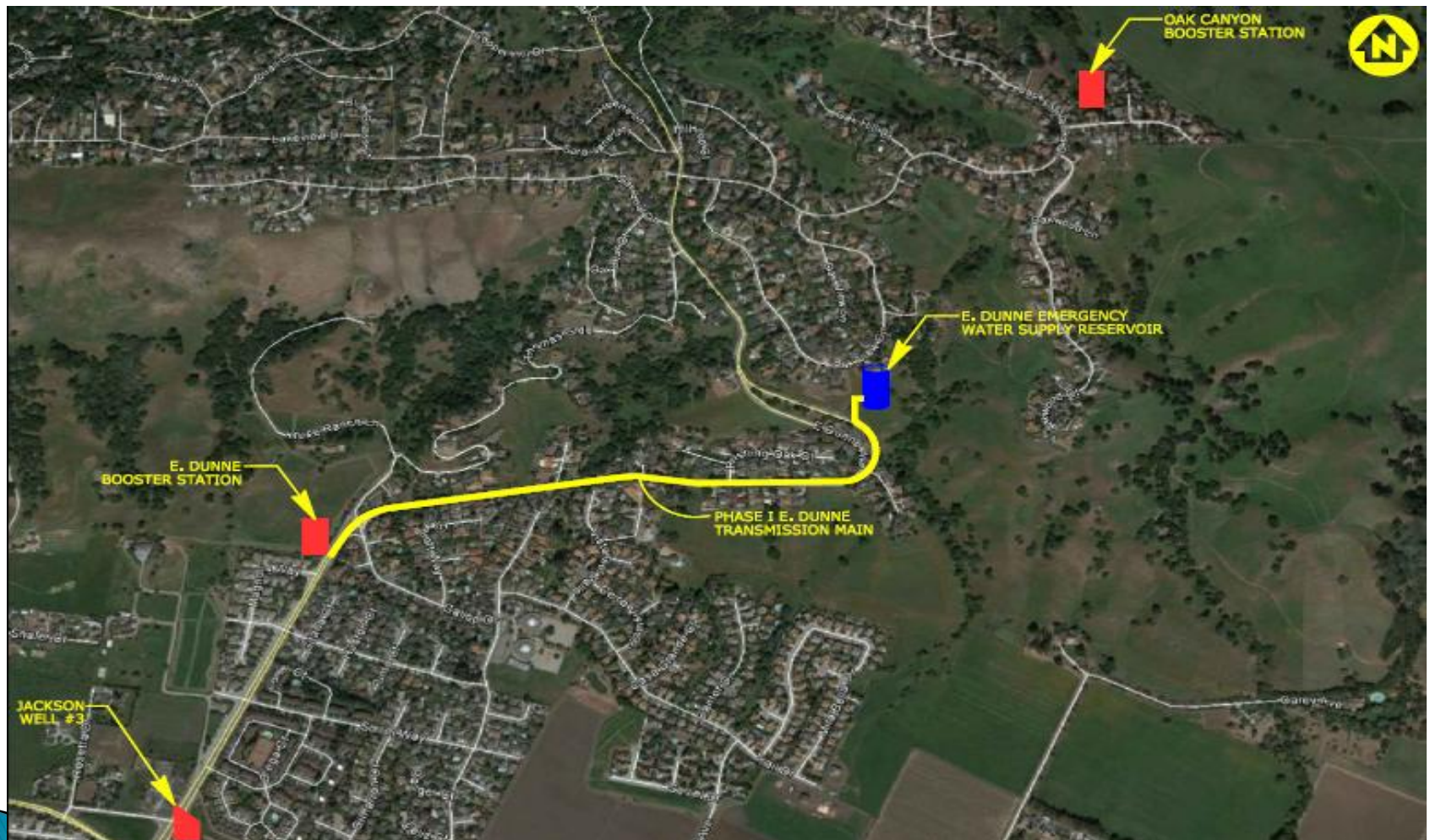
Water System Upgrades

▶ FY 2015/16 & 2016/17 Improvements include:

- Jackson Oaks Well Rehabilitation
 - Oak Canyon Booster Station Rebuild
 - E. Dunne Water Transmission Main Project
 - Eastside Water Supply Reservoir
 - E. Dunne Booster Station Rehabilitation
- 

Water System Upgrades

FY 2015/16 & 2016/17 Improvements

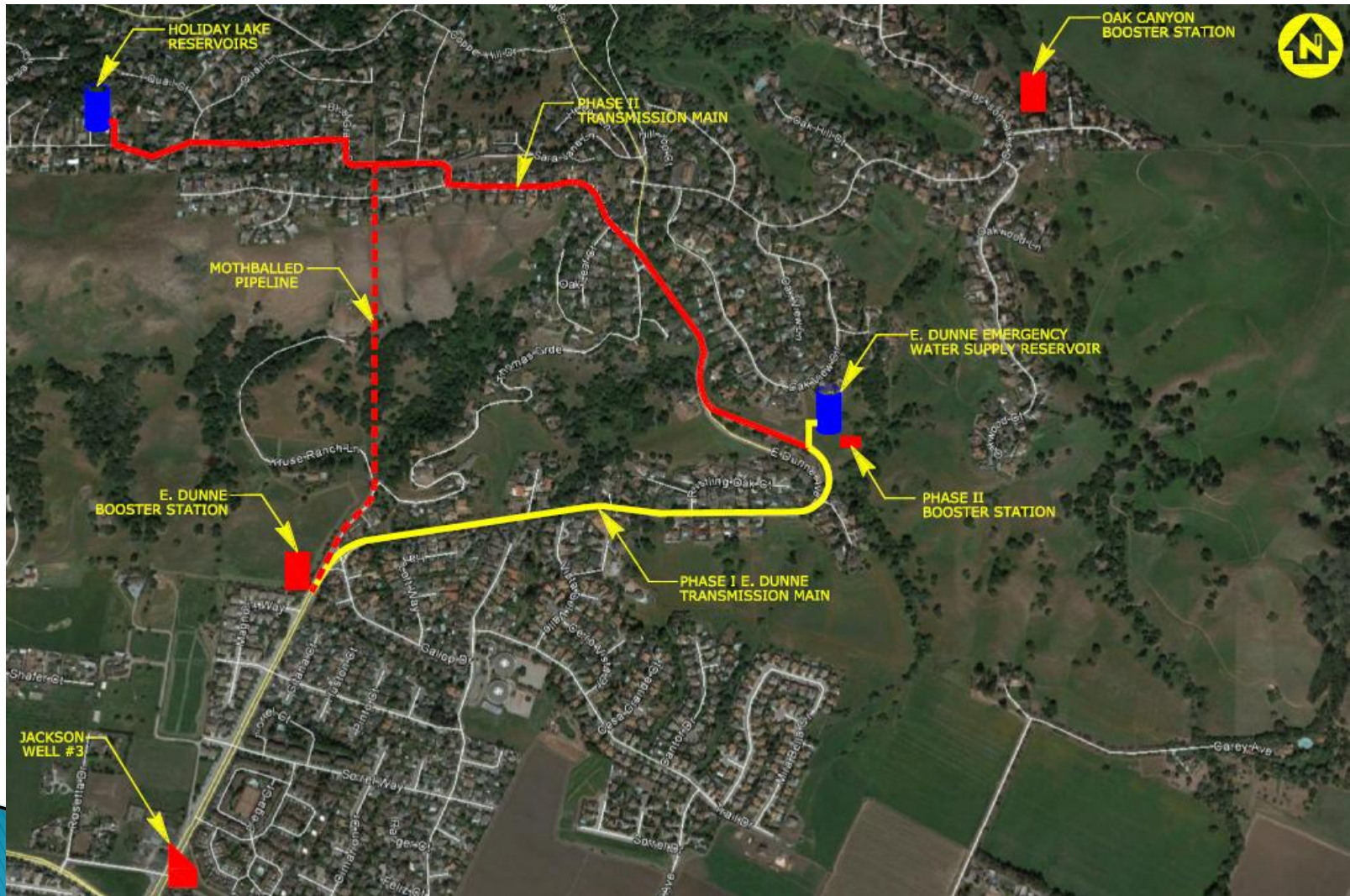


City of Morgan Hill Water System Upgrades

- ▶ Future Improvements Include:
 - Transmission Main to Holiday Lake Reservoirs 1 & 2
 - Booster Station at E. Dunne Hillside Tank
 - Mothball High Pressure Piping to Holiday Lake 1 & 2

Water Capital Improvements

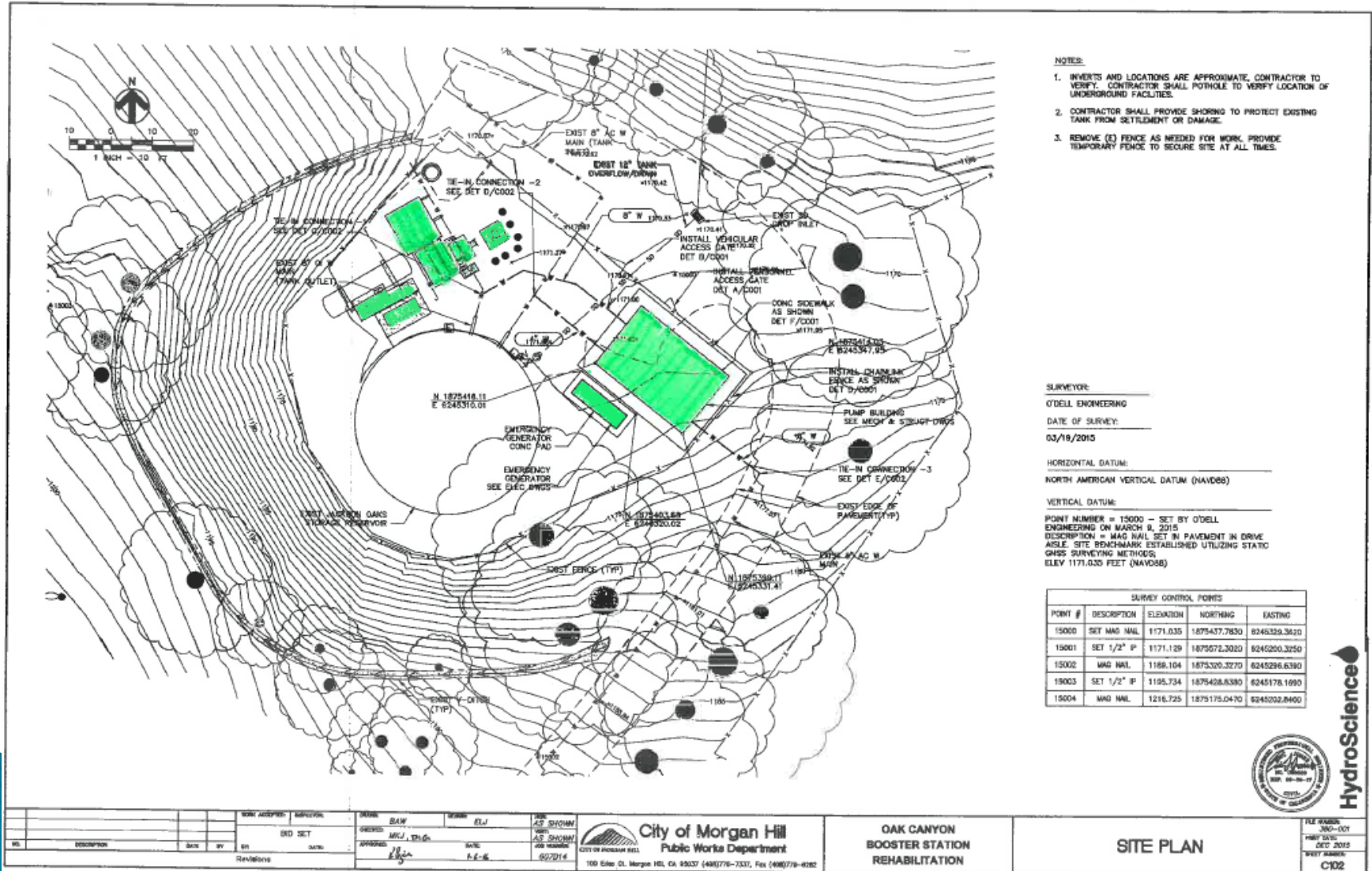
Future Improvements



Jackson Oaks Well Rehabilitation



Oak Canyon Booster Station Rebuild



E. Dunne Water Transmission Main Project



E. Dunne Booster Station



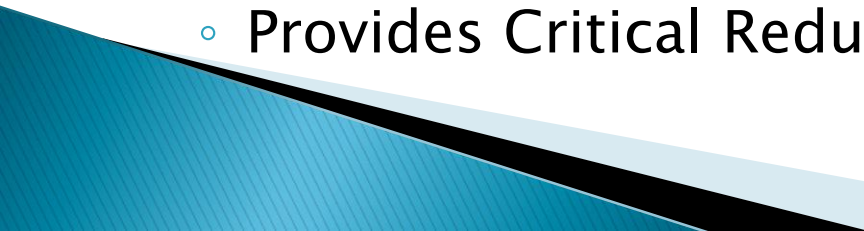
Water Capital Improvements

Eastside Emergency Water Supply Reservoir



Eastside Emergency Water Supply Reservoir

► Critical Functions:

- Enhance Fire Protection.
 - New Fire Hydrant Along East Dunne Near the New Reservoir.
 - Effectively Doubles Water Capacity.
 - Water Capacity Essential to Survive Major Earthquakes, Fires & Catastrophic Emergencies.
 - Adequate Water Supply Essential to Maintain Public Health and Safety.
 - Quick Access to Water Essential to Fire Fighting.
 - Maintaining Water Infrastructure is Essential.
 - Adequate Water Supply and Emergency Water Reserves Are Essential for Public Health and Safety.
 - Provides Critical Redundancies & Improves Reliability.
- 

Eastside Water Supply Reservoir

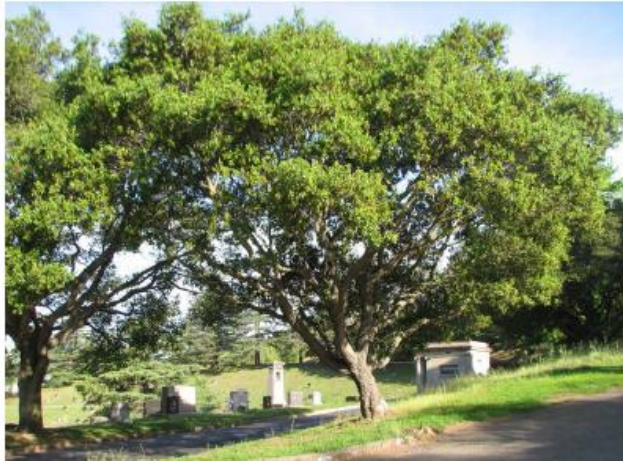


Eastside Water Supply Reservoir

Trees



Quercus lobata / VALLEY OAK



Quercus agrifolia / COAST LIVE OAK

Shrubs



Heteromeles arbutifolia / TOYON



Prunus ilicifolia / HOLLYLEAF CHERRY

Grasses/Perennial

PACIFIC COAST SEED MIXES



HABITAT MIX

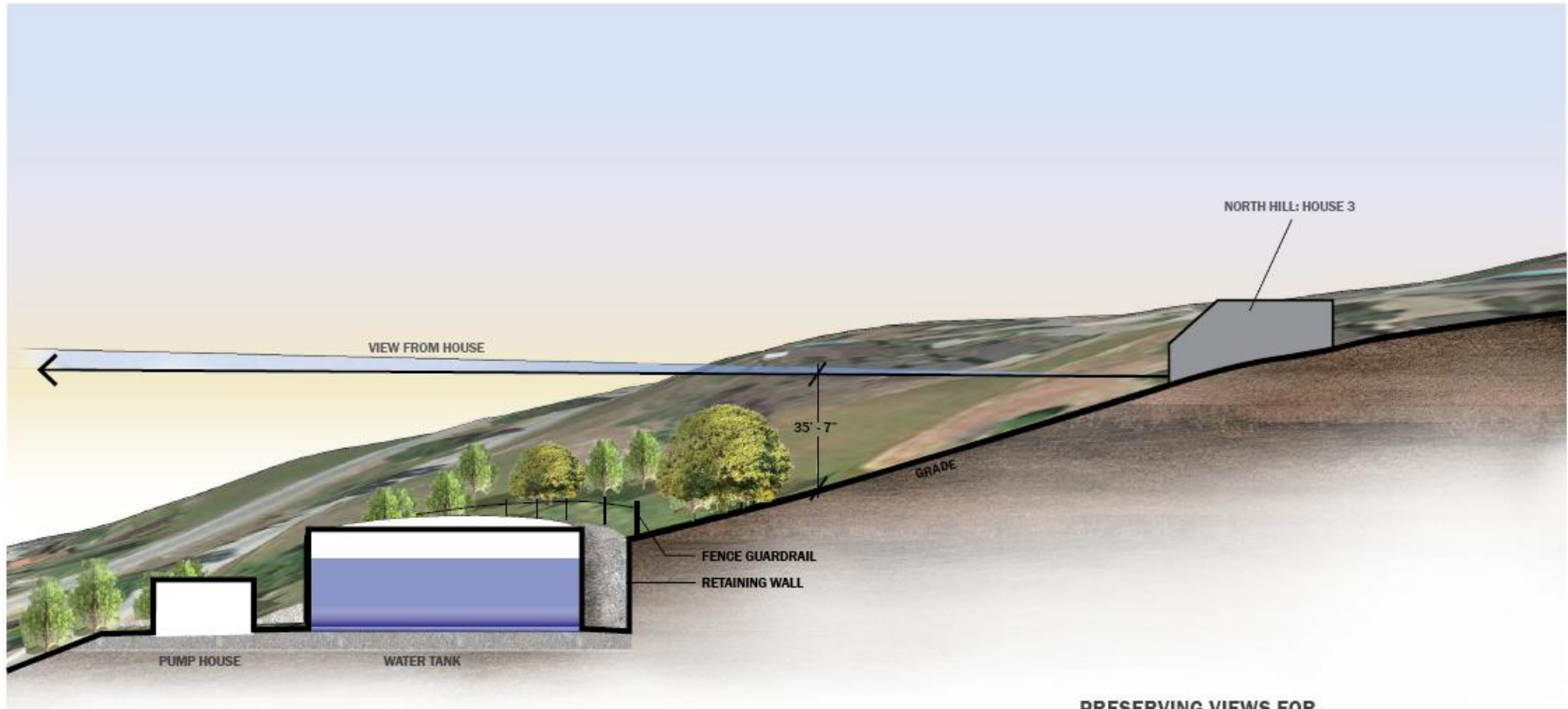
Bromus carinatus / Native California Brome
Elymus glaucus / Blue Wild Rye
Hordeum californicum / California Barley
Festuca idahoensis / Idaho Fescue
Nassella pulchra / Purple Needlegrass
Poa secunda / Native Pine Bluegrass



CALIFORNIA NATIVE WILDFLOWER MIX

Achillea millefolium / White Yarrow
Clarkia elegans / Elegant Clarkia
Collinsia heterophylla / Chinese Houses
Eschscholzia californica / California Poppy
Gilia capitata / Globe Gilia
Lasthenia glabrata / Goldfields
Layia platyglossa / Tidy Tips
Linum lewisii / Blue Flax
Lupinus densiflorus / Golden Lupine
Lupinus succulentus / Arroyo Lupine
Nemophila menziesii / Baby-Blue Eyes
Phacelia campanularia / California Blue Bells
Triphysaria versicolor / Yellow Owl's Clover

Eastside Water Supply Reservoir



PRESERVING VIEWS FOR SURROUNDING HOUSES

The trees should be planted to mitigate the view to the water tank, yet not grow so high that they block the scenic view to the valley from the houses above the tank.

Eastside Water Supply Reservoir – View Shed Study



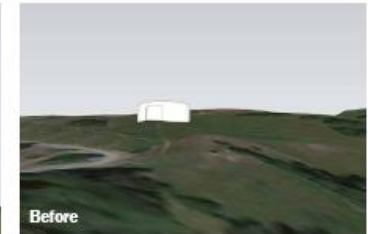
Eastside Water Supply Reservoir – View Shed Study



Viewshed - South Along the Road



House: South of Hill



Before



E. Dunne Road Avenue



Before



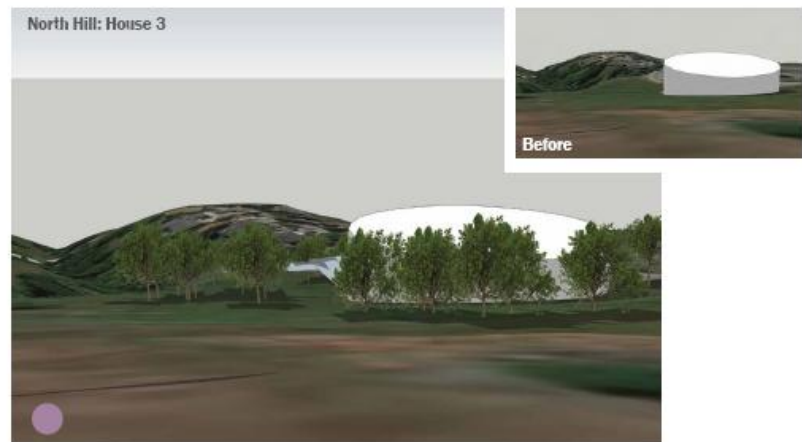
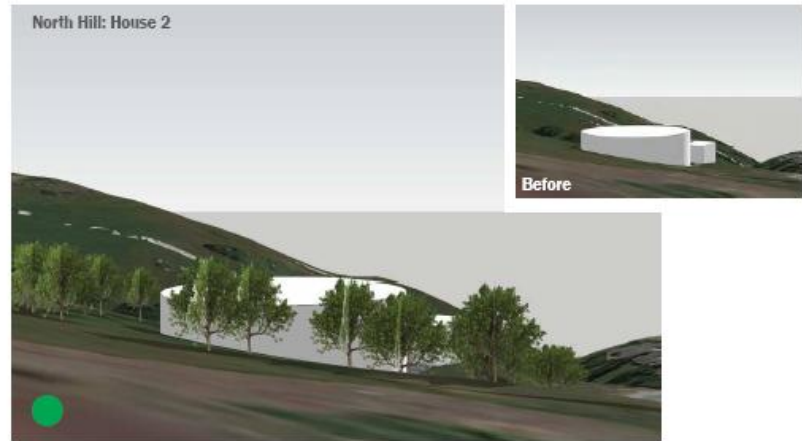
House: Across E. Dunne Avenue



Before

Eastside Water Supply Reservoir – View Shed Study

Viewshed - North Hill Above Tank



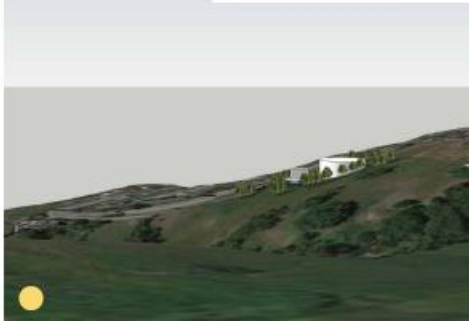
Eastside Water Supply Reservoir – View Shed Study

Viewshed - East Hill



East Hill: House 1

Before



East Hill: House 2

Before



East Hill: House 3

Before



East Hill: House 4

Before



East Hill: House 5

Before



Schedule

WATER PROJECTS	2016										2017												
	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept				
Jackson #3 Well Rehabilitation	Well Drilling			Bidding Process		Building Rehabilitation																	
Oak Canyon Booster Station		Construction																					
E. Dunne Water Transmission Main	Bidding Process		Construction																				
Emergency Reservoir	Design					Bidding Process		Construction															
E. Dunne Booster Sta. Rehab								Design		Bidding Process		Construction											

Sewer System Improvement Plan



Sewer System Improvement Plan

Schedule

SEWER PROJECTS	2016											2017								
	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	
Sewer Lift Sta. J & K	Design		Bidding Process		Construction															
Sewer Lift Sta. D & F	Design			Bidding Process		Construction														
Oak Leaf Ln. Access Road	Design			Bidding Process		Construction														
Replace Lift Sta F Force Main Piping								Design				Bidding Process		Construction						